

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P630380

Luminaire Tested: GWS-SA1D-750-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630380  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1D-750-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

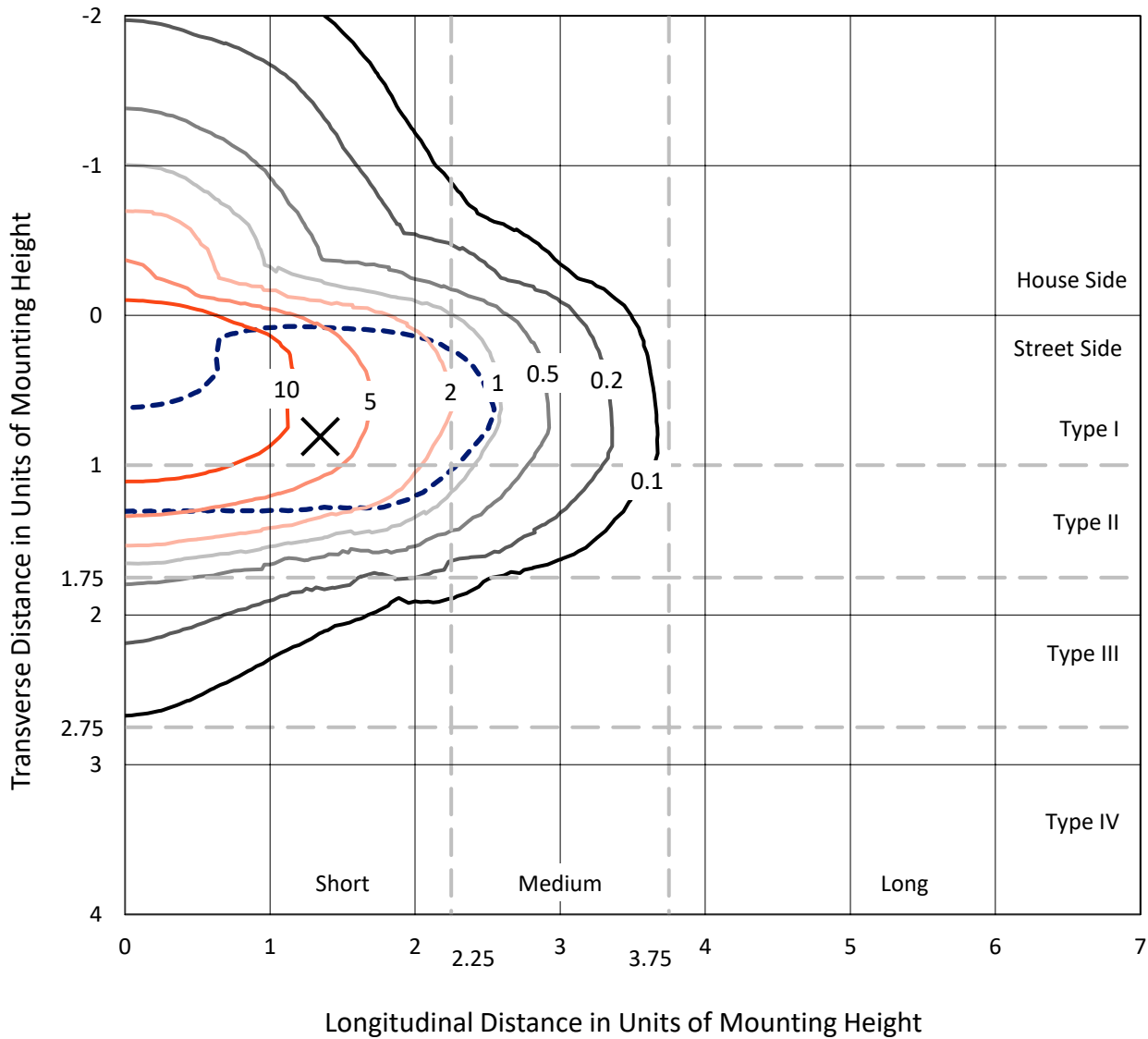
Lumens per Lamp: N/A  
Luminaire Lumens: 6316.3 lumens  
Efficiency: N/A  
Efficacy: 142.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

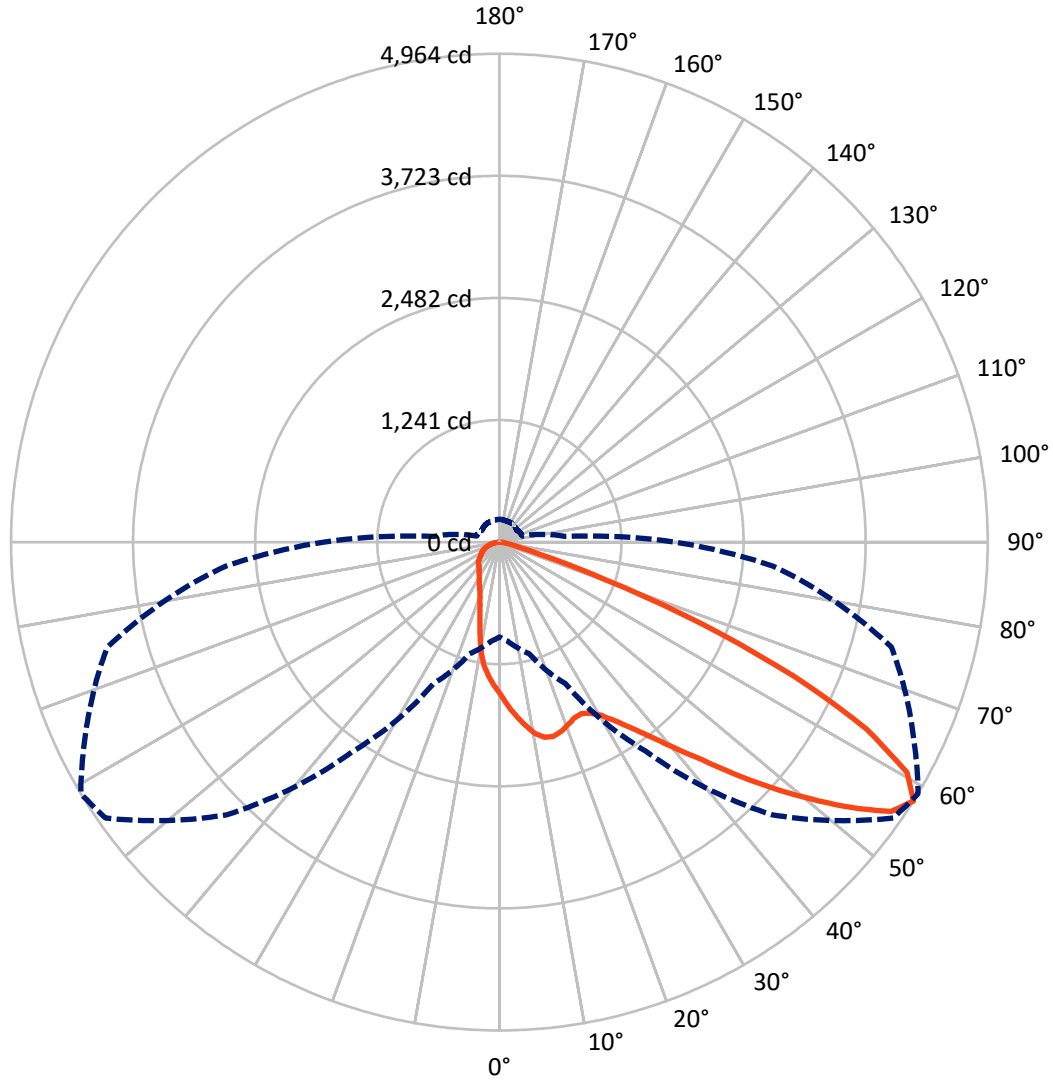
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	980.3	0.0	980.3
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	5336.1	0.0	5336.1
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	6316.3	0.0	6316.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.0	2.3
10°-20°	364.8	5.8
20°-30°	591.4	9.4
30°-40°	951.3	15.1
40°-50°	1477.3	23.4
50°-60°	1591.2	25.2
60°-70°	923.5	14.6
70°-80°	241.1	3.8
80°-90°	31.8	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6316.3	100.0
0°-180°	6316.3	100.0

**Coefficient of Utilization**



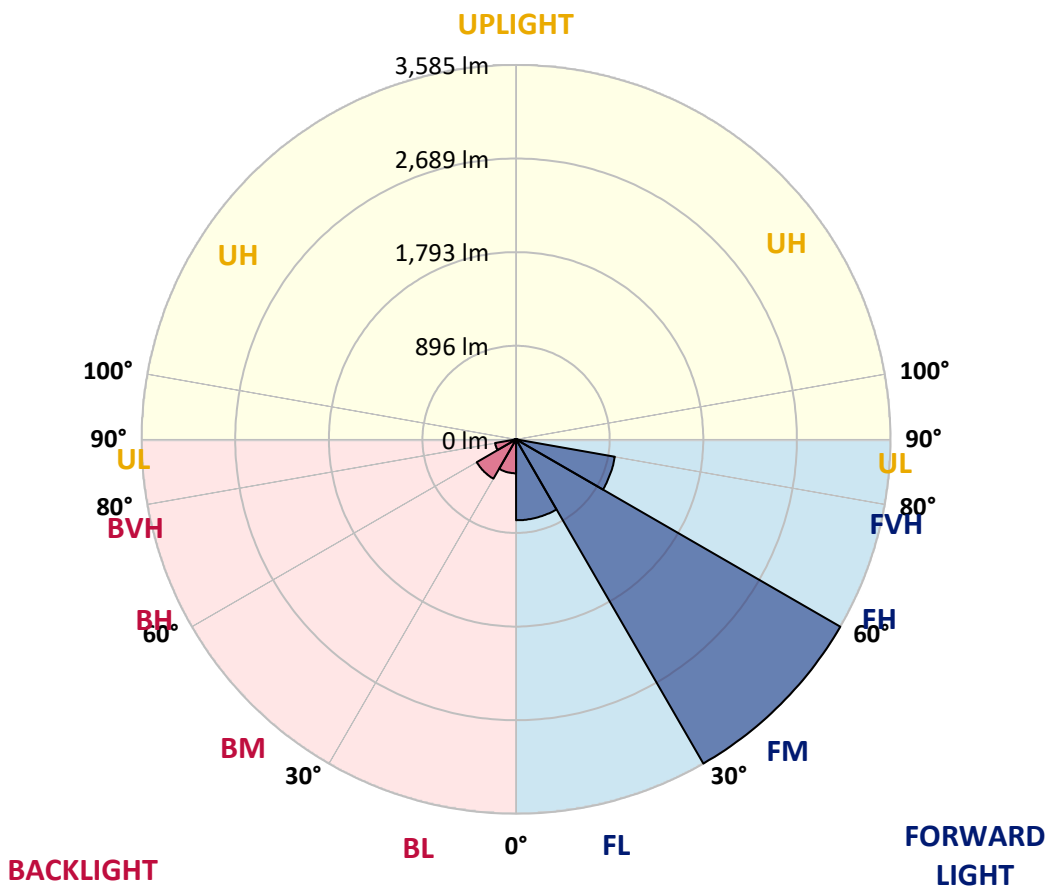
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	774.9	12.3			
FM (30°-60°)	3585.2	56.8			
FH (60°-80°)	960.7	15.2			G1/1800
FVH (80°-90°)	15.2	0.2			G1/100
BL (0°-30°)	325.2	5.1	B1/500		
BM (30°-60°)	434.6	6.9	B1/1000		
BH (60°-80°)	203.9	3.2	B1/500		G1/500
BVH (80°-90°)	16.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5
2.5°	1758.6	1744.0	1754.2	1735.9	1728.4	1708.4	1682.6	1665.2	1638.6	1603.9	1573.6
5°	1933.4	1923.1	1925.4	1905.8	1888.5	1855.1	1802.2	1772.9	1727.5	1657.7	1592.8
7.5°	1928.0	1940.0	1946.7	1963.6	1968.5	1965.4	1917.8	1876.9	1827.1	1722.2	1624.3
10°	1728.4	1751.1	1771.5	1829.3	1899.6	1988.5	1999.6	1975.2	1924.9	1804.4	1662.1
12.5°	1511.0	1528.3	1546.5	1615.9	1723.5	1901.4	2021.9	2037.0	2017.0	1885.8	1704.8
15°	1404.2	1412.2	1429.6	1475.4	1561.2	1758.6	1983.2	2049.4	2085.4	1972.1	1752.8
17.5°	1399.8	1403.3	1411.8	1436.2	1495.8	1648.4	1913.4	2024.5	2139.3	2063.2	1808.9
20°	1491.8	1482.5	1477.2	1476.7	1506.1	1611.4	1845.8	1984.5	2164.6	2156.6	1868.9
22.5°	1619.4	1622.6	1611.0	1582.5	1579.0	1637.7	1812.0	1944.0	2172.2	2239.3	1924.5
25°	1800.4	1816.0	1781.7	1727.5	1700.8	1713.7	1832.9	1931.6	2171.3	2308.2	1959.2
27.5°	2011.6	2023.6	1989.0	1917.8	1862.7	1831.5	1895.1	1968.5	2178.8	2367.8	1980.1
30°	2252.2	2256.2	2208.6	2133.9	2053.4	1986.7	1998.7	2044.5	2217.5	2446.1	2004.5
32.5°	2546.1	2563.0	2491.0	2372.7	2260.2	2174.8	2137.9	2167.3	2301.1	2538.6	2042.3
35°	2919.2	2925.0	2833.4	2664.0	2504.8	2386.5	2309.1	2324.7	2428.3	2668.0	2099.2
37.5°	3270.9	3276.7	3179.3	3021.9	2794.2	2632.4	2520.3	2513.2	2591.0	2850.7	2192.2
40°	3494.1	3510.6	3467.0	3368.3	3150.9	2932.5	2780.5	2756.0	2804.5	3074.4	2321.6
42.5°	3614.2	3621.3	3620.4	3633.3	3503.9	3286.9	3073.9	3025.0	3057.5	3315.8	2452.3
45°	3615.1	3632.9	3680.4	3804.5	3810.3	3675.1	3444.8	3368.3	3338.5	3559.0	2588.8
47.5°	3453.2	3472.3	3603.1	3847.2	4027.3	4058.0	3889.0	3735.6	3610.2	3768.5	2700.9
50°	2963.2	3011.2	3260.2	3692.0	4070.0	4364.8	4312.7	4104.6	3851.6	3930.3	2771.1
52.5°	2537.7	2535.9	2689.3	3253.6	3891.7	4499.9	4722.7	4484.4	4090.4	4033.1	2788.9
55°	1858.2	1868.5	2025.4	2488.3	3415.9	4369.2	4948.2	4833.9	4364.3	4087.7	2781.8
57.5°	963.6	1014.3	1175.2	1587.9	2595.5	3919.2	4888.1	4964.2	4642.7	4126.4	2791.1
60°	486.9	477.1	534.9	758.1	1503.8	3061.0	4518.2	4760.5	4692.9	4156.7	2796.9
62.5°	325.0	322.4	306.4	351.3	614.5	1812.9	3851.6	4191.4	4343.9	4085.5	2723.1
65°	281.5	276.1	246.8	245.0	298.4	751.9	2823.1	3294.9	3590.2	3769.4	2546.6
67.5°	253.5	245.5	215.7	201.0	214.3	330.4	1591.0	2210.0	2651.1	3187.8	2159.7
70°	226.3	222.3	192.5	171.2	169.9	201.4	586.1	1140.5	1622.1	2174.8	1579.0
72.5°	202.8	195.6	170.3	149.9	139.6	142.7	254.3	439.3	839.5	1356.7	944.5
75°	175.6	170.3	148.1	127.6	115.2	104.5	155.2	203.2	382.9	644.8	446.0
77.5°	135.6	132.1	116.9	101.4	94.3	77.8	94.3	128.1	177.0	271.7	232.1
80°	78.7	80.9	87.2	79.1	69.4	55.6	61.4	73.8	106.3	147.2	131.6
82.5°	39.6	42.2	56.5	45.8	41.4	32.5	36.5	43.6	55.6	81.4	51.6
85°	3.1	3.1	10.2	11.6	14.2	11.6	14.7	17.8	25.3	32.5	17.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.2	4.0	7.6	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5	1550.5
2.5°	1553.2	1530.5	1503.4	1481.2	1446.9	1428.7	1405.6	1377.1	1365.5	1360.2	1357.1
5°	1556.3	1516.3	1458.5	1405.1	1346.0	1299.3	1247.3	1193.0	1161.9	1154.3	1149.0
7.5°	1567.9	1511.8	1419.8	1331.8	1221.9	1120.1	1020.9	922.7	872.4	853.3	851.5
10°	1583.9	1510.1	1380.7	1234.4	1049.0	888.0	771.9	695.0	662.5	651.9	648.3
12.5°	1603.9	1508.7	1329.1	1099.2	849.3	697.2	631.0	618.5	623.0	622.1	622.1
15°	1629.2	1510.5	1266.8	946.2	687.0	605.2	606.5	621.2	635.0	637.2	637.2
17.5°	1656.8	1508.7	1176.6	792.8	589.6	583.4	603.8	624.3	636.8	638.5	638.5
20°	1686.6	1500.3	1062.7	648.3	546.9	569.6	591.8	607.8	615.4	617.2	617.2
22.5°	1704.4	1476.3	939.1	548.7	519.8	547.8	562.5	578.9	579.8	565.6	565.2
25°	1701.7	1431.4	798.2	484.7	490.9	515.4	534.0	522.5	508.2	500.2	498.9
27.5°	1684.8	1363.8	654.5	436.2	456.7	484.2	478.5	468.7	465.1	456.2	455.3
30°	1663.5	1280.6	525.6	398.4	421.1	446.4	437.5	436.7	433.1	423.3	423.3
32.5°	1643.0	1194.8	428.2	370.4	398.4	400.2	412.6	413.5	411.8	394.9	393.1
35°	1637.2	1109.0	362.4	348.2	376.2	375.3	393.1	392.6	362.0	338.4	337.9
37.5°	1654.6	1021.8	323.3	329.9	345.5	357.1	371.3	345.5	335.3	321.0	320.2
40°	1691.5	941.3	303.3	319.3	325.9	342.8	320.6	322.4	319.7	309.0	307.7
42.5°	1740.4	872.9	292.1	315.7	314.8	319.3	294.8	301.9	305.9	297.9	296.6
45°	1787.5	813.3	286.4	302.4	306.8	281.0	276.1	282.8	289.0	285.9	284.6
47.5°	1822.2	761.7	283.2	284.1	296.6	268.1	260.1	263.2	270.8	272.1	271.7
50°	1832.9	717.7	279.7	269.0	266.4	255.2	249.0	248.1	257.0	263.2	264.1
52.5°	1812.4	678.5	270.4	255.7	242.8	244.6	242.3	237.9	246.8	255.2	256.1
55°	1782.2	656.3	255.7	242.8	227.7	234.8	235.7	231.7	237.4	243.2	243.2
57.5°	1784.4	669.2	241.4	230.8	214.3	223.7	228.6	226.8	226.8	231.2	231.7
60°	1799.1	687.9	232.1	215.7	201.0	210.8	221.9	220.1	216.1	221.9	221.9
62.5°	1756.8	663.0	225.9	201.0	186.8	198.3	211.7	210.8	206.3	215.7	216.5
65°	1632.3	596.3	218.8	182.8	172.5	185.9	197.4	200.5	196.5	209.0	211.2
67.5°	1368.2	501.6	205.0	165.4	158.3	170.7	181.9	186.3	183.2	197.9	199.7
70°	1020.0	406.0	183.2	146.3	141.0	152.1	162.3	164.1	164.5	181.9	183.6
72.5°	650.5	315.7	154.3	124.9	120.9	129.4	137.0	144.1	147.2	163.6	163.2
75°	362.8	234.8	124.1	105.8	98.7	105.4	114.3	122.7	131.6	155.6	158.3
77.5°	209.0	165.0	98.3	84.9	76.5	83.6	91.2	103.2	129.8	150.7	148.1
80°	117.8	107.2	74.3	62.3	56.9	62.3	68.0	90.7	102.3	111.2	112.5
82.5°	55.1	60.0	50.7	38.2	38.2	41.8	47.1	70.3	77.4	63.1	55.1
85°	20.0	27.1	24.9	19.6	17.3	16.9	29.3	40.0	24.9	22.2	19.1
87.5°	5.3	7.6	7.1	4.9	2.7	2.2	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)